JENT COOPERATION TREATY



From the INTERNATIONAL SEARCHING AUTHORITY

To: KONINKLIJKE PHILIPS ELECTRONICS

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT

Attn. Kraus, Robert J. P.O. Box 3001 Briarcliff Manor, NY 10510-8001 UNITED STATES OF AMERICA	OR THE DECLARATION (PCT Rule 44.1)
	Date of mailing (day/month/year) 09/06/2004
Applicant's or agent's file reference	
PHUS020619WO	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/IB 03/05983	International filing date (day/month/year) 12/12/2003
Applicant	
KONINKLIJKE PHILIPS ELECTRONICS N.V.	
	Is of the International Application (see Rule 46): Illy 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet. Impanying sheet. In Report will be established and that the declaration under anal fee(s) under Rule 40.2, the applicant is notified that: In transmitted to the International Bureau together with the est and the decision thereon to the designated Offices.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international ap If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided i completion of the technical preparations for international publica Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 molecular date.	of withdrawal of the international application, or of the n Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the tion. al preliminary examination must be filed if the applicant
Within 20 months from the priority date, the applicant must perfor before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	m the prescribed acts for entry into the national phase demand or in a later election within 19 months from the

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2

Tel. (+31-70) 340-3016

Authorized officer

Mustafa Corapci



These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.



The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

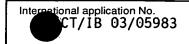
For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
PHUS020619WO International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
international application No.		(Carriest) Friority Date (day/month/year)	
PCT/IB 03/05983	12/12/2003	20/12/2002	
Applicant			
KONINKLIJKE PHILIPS ELECT	RONICS N.V.		
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	ority and is transmitted to the applicant	
	of a total of sheets. a copy of each prior art document cited in this	report.	
Basis of the report			
 a. With regard to the language, the language in which it was filed, un 	international search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the	
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of th	e international application furnished to this	
was carried out on the basis of the	d/or amino acid sequence disclosed in the int e sequence listing: onal application in written form.	ernational application, the international search	
	ernational application in computer readable form	1.	
7		•	
	furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readble form.		
the statement that the sul	osequently furnished written sequence listing do	pes not go beyond the disclosure in the	
'''	es filed has been furnished. primation recorded in computer readable form is	identical to the written sequence listing has been	
2. Certain claims were fou	nd unsearchable (See Box I).		
3. X Unity of invention is lac	, ,		
4. With regard to the title,			
 With regard to the title, The text is approved as su 	hmitted by the applicant		
h-a	hed by this Authority to read as follows:		
	, ,		
5. With regard to the abstract,			
X the text is approved as su			
the text has been establis within one month from the	hed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	as it appears in Box III. The applicant may, ort, submit comments to this Authority.	
6. The figure of the drawings to be publi	shed with the abstract is Figure No.	1	
X as suggested by the appli	cant.	None of the figures.	
because the applicant fail	ed to suggest a figure.		
because this figure better	characterizes the invention.		





x I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)		
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following re	easons:	
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to suc an extent that no meaningful International Search can be carried out, specifically:	ch	
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4.	4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows:		
see additional sheet		
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.		
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payme of any additional fee.	ənt	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:		
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-7, 14-18, 21	;	
Remark on Protest The additional search fees were accompanied by the applicant's put No protest accompanied the payment of additional search fees.	rotest.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7,14-18,21

A system for sensing intensity of a light source comprising: emitting at least one light signal at a discrete frequency; transmitting a reference signal associated with each of the light signals at the associated discrete frequency; and producing an intensity value based on the light signal and the associated reference signal; wherein the light source comprises: a control unit; and a coloured light source designed to receive a drive signal from the control unit and producing the light signal based on the drive signal.

2. claims: 8-13,19,20

A system for sensing intensity of a light source comprising: emitting at least one light signal at a discrete frequency; transmitting a reference signal associated with each of the light signals at the associated discrete frequency; and producing an intensity value based on the light signal and the associated reference signal; wherein a photodector for sensing the light signal comprises a multi-junction photodiode.



PCT 03/05983

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H05B33/08 G01R23/16

G06G7/19

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched} & \text{(classification system followed by classification symbols)} \\ IPC & 7 & H05B & G06G & G01R \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 055 251 A (MAJIMA MASAO ET AL) 25 April 2000 (2000-04-25) column 11, line 9 - column 13, line 21; figures 13-16	1-7, 14-18,21
Y	EP 0 296 609 A (NIPPON ELECTRIC CO) 28 December 1988 (1988-12-28) column 3, line 50 - column 17, line 33; figures 1-13	1-7, 14-18,21
Υ	US 3 439 269 A (FUCHS ABRAHAM M) 15 April 1969 (1969-04-15) column 1, line 12 - column 6, line 53; figures 1-3	1-7, 14-18,21
Α	US 5 172 058 A (TASCA JEAN-PIERRE) 15 December 1992 (1992-12-15)	
	-/	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family	
Date of the actual completion of the international search	Date of mailing of the international search report	
19 March 2004	0 9. 06. 2004	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer	
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Albertsson, E	

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	·	PCT 03/05983	
C.(Continu	C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	US 3 328 686 A (FUCHS ABRAHAM M) 27 June 1967 (1967-06-27)		
Α	US 3 439 283 A (DANIELSON GORDON H) 15 April 1969 (1969-04-15)		
Α	US 3 876 946 A (LA CLAIR PHILIP W ET AL) 8 April 1975 (1975-04-08)		
17.7			

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03/05983 Patent family Publication Publication Patent document member(s) cited in search report date date 25-04-2000 JP US 6055251 Α 3210152 B2 17-09-2001 JΡ 7086670 A 31-03-1995 JP 3093535 B2 03-10-2000 JΡ 7106677 A 21-04-1995 CA 2132043 A1 18-03-1995 DE 69408759 D1 09-04-1998 DE 69408759 T2 09-07-1998 EP 0644635 A1 22-03-1995 28-12-1988 JP EP 0296609 1177518 A Α 13-07-1989 JP 1966965 C 18-09-1995 JP 6103856 B 14-12-1994 JP 10-01-1989 1005124 A 1279414 C CA 22-01-1991 DE 3884473 D1 04-11-1993 DE 3884473 T2 28-04-1994 EP 0296609 A2 28-12-1988 US 4841519 A 20-06-1989 US 3439269 A 15-04-1969 NONE US 5172058 Α 15-12-1992 FR 2671187 A1 03-07-1992 CA 2058522 A1 29-06-1992 69123827 D1 DE 06-02-1997 69123827 T2 10-04-1997 DE 0492392 A1 EP 01-07-1992 NONE US 3328686 27-06-1967 US 3439283 1541384 A1 Α 15-04-1969 DE 18-12-1969 FR 1518675 A 29-03-1968 GB 1154473 A 11-06-1969 US 3876946 08-04-1975 GB 1463142 A 02-02-1977

International Application No